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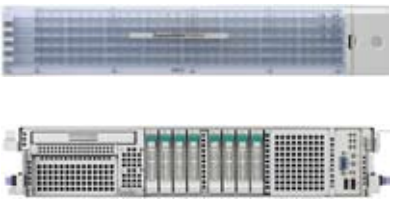
NEC

The scalable compact rack server

NEC Express5800/R120b-2

ENERGY EFFICIENT SERVER FOR THE MOST DEMANDING APPLICATIONS



ENERGY STAR

80 PLUS GOLD

intel Xeon inside™

HIGH PERFORMANCE

FLEXIBLE SCALABILITY

SIMPLIFIED MANAGEABILITY

Scalable and green

The Express5800/R120b-2 is a dual-socket 2U rack server enabling high-density mounting and combining outstanding performance, reliability, energy saving parts and green technology. In addition, the platform features internal scalability and large memory capacity for future growth.

For compute intensive environments

Perfect for virtualization solutions, database servers, consolidation of business-critical applications, Web servers which all process high volumes of data in the background of their primary tasks.

Advanced system management

R120b-2 comes standard with a practical remote management solution. Remote monitoring and management are possible through a Web browser regardless of the status of the operating system and even when the platform is turned off.

High performance

- Powered by Intel® Xeon® 5600 series processors
- Up to 192GB DDR3L-1333 memory

Flexible scalability

- Up to four PCI Express 2.0 and one PCI Express support
- Supports up to twelve 2.5-inch SAS drives or six 3.5-inch SATA drives
- Optional 3.5-inch bay to mount a storage backup device

Simplified manageability

- The EXPRESSBUILDER setup support tool provides step-by-step guidance via intuitive GUI and automates the setup process to reduce hands-on management.
- The ESMPRO management software and the EXPRESSSCOPE Engine 2 remote management controller interact to monitor, control and troubleshoot from a remote console.

HARDWARE SPECIFICATION

MODEL	Express5800/R120b-2
Processors	Number of processor: 1-2 Intel® Xeon® Processor X5690 (3.46 GHz/6-core/12 MB)* Intel® Xeon® Processor X5687 (3.60 GHz/4-core/12 MB)* Intel® Xeon® Processor X5675 (3.06 GHz/6-core/12 MB)* Intel® Xeon® Processor X5650 (2.66 GHz/6-core/12 MB) Intel® Xeon® Processor E5645 (2.40 GHz/6-core/12 MB)* Intel® Xeon® Processor E5620 (2.40 GHz/4-core/12 MB) Intel® Xeon® Processor E5606 (2.13 GHz/4-core/8 MB) Intel® Xeon® Processor E5503 (2 GHz/2-core/4 MB)* *** 2.5-inch disk drive model only**
Memory	DDR3-1333 ECC registered low power DIMM (1/2/4/8 GB), DDR3-1066 ECC registered low power DIMM (16 GB) Max.: 192 GB (12 x 16 GB)
Maximum storage	3.5-inch SATA: 18 TB (6 x 3 TB) 2.5-inch SAS: 10.8 TB (12 x 900 GB), 2.5-inch SATA: 12 TB (12 x 1 TB), 2.5-inch SSD: 1.2 TB (12 x 100 GB)
Removable media	1 bay for optical disk drive 1 bay for internal tape drive
Expansion slots	Total: 5 slots available*, ** 1 PCIe 2.0 x8 (x16 connector) 2 PCIe 2.0 x8 (x8 connector) 1 PCIe 2.0 x4 (x8 connector) 1 PCIe x4 (x8 connector) *** The slot mix changes by installing optional riser cards ** Plus one dedicated slot for a RAID controller**
Video	Integrated in the Server Management Controller (32 MB)
Network	2 1000BASE-T/100BASE-TX/10BASE-T + 1 100BASE-TX for management
Power consumption	810 VA / 800 Watt (max., at 100 VAC)
Redundant power supply	Optional, hot plug
Redundant cooling fan	Optional, hot plug
Management	Server Management Controller (EXPRESSSCOPE Engine 2)
Interface	2 VGA, 1 keyboard, 1 mouse, 1 serial*, 4 USB 2.0 (plus 4 internal USB 2.0), 2 LAN, 1 management LAN *** Total 2 with optional port**
Dimensions (W x D x H) and weight	445.2 x 721.2 x 86.7 mm / 17.5 x 28.4 x 3.4 in (2U) Max.: 31 kg / 68.34 lb
Temperature and humidity condition (non-condensing)	Operating: 10 to 35°C / 50 to 95°F , 20 to 80% Non-operating: -10 to 50°C / 14 to 122°F, 20 to 80%
Operating systems and virtualization software	Microsoft® Windows Server® 2003 R2, Standard Edition / Enterprise Edition Microsoft® Windows Server® 2003 R2, Standard x64 Edition / Enterprise x64 Edition Microsoft® Windows Server® 2008 Standard / Enterprise Microsoft® Windows Server® 2008 Standard (x64) / Enterprise (x64) Microsoft® Windows Server® 2008 R2 Standard / Enterprise Red Hat® Enterprise Linux® VMware® ESX™i 4.1

Note : For Linux support, go to the NEC website at http://www.nec.com/global/prod/express/linux/, or contact our sales representative

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